

Hanfang Lyu

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Ph.D. Candidate, The Hong Kong University of Science and Technology

ABOUT

I am a researcher in the area of Human-Robot Interaction (HRI) and Human-Computer Interaction (HCI), focusing on understanding how people perceive and engage with different forms of robots while fostering human-robot value alignment. My research aims to enhance human-robot teaming and cultivate meaningful human-robot attachment.

EDUCATION

- **The Hong Kong University of Science and Technology [HKUST]** Sep. 2022 - Aug. 2026*
Doctor of Philosophy (Ph.D.) in Computer Science and Engineering
Hong Kong, China
 - Supervisors: [Prof. Xiaojuan Ma](#) and [Prof. Fugee Tsung](#)
 - Teaching Assistant in CORE1232 2022 Spring, COMP1022P Fall 2023, COMP2211 Fall 2024
- **The Hong Kong University of Science and Technology (Guangzhou) [HKUST(GZ)]** Feb. 2025 - May 2026
Cross-Campus Study Program
Hong Kong, China
 - Supervisor: Prof. Fugee Tsung
- **The Hong Kong University of Science and Technology [HKUST]** Sep. 2018 - Jun. 2022
Bachelor of Science (B.Sc.) in Mathematics (Applied Mathematics Track), and in Computer Science (Additional Major) Hong Kong, China
 - The Chern Class Graduate with Achievement Scholarship
 - First Class Honors

PUBLICATIONS

- [1] **Hanfang Lyu**, Xiaoyu Wang, Nandi Zhang, Shuai Ma, Qian Zhu, Yuhan Luo, Fugee Tsung, and Xiaojuan Ma. [Signaling Human Intentions to Service Robots: Understanding the Use of Social Cues during In-Person Conversations](#). In *CHI Conference on Human Factors in Computing Systems (CHI '25)*. ( [Honorable Mention Award](#))
- [2] Kangyu Yuan, Li Zhang, **Hanfang Lyu**, Ziqi Pan, Yuanhao Zhang, Junze Li, Bingcan Guo, Jiaxiong Hu, Qingyu Guo, and Xiaojuan Ma. ["I Love the Internet Again": Exploring the Interaction Inception of "TikTok Refugees" Flocking into Rednote](#). In *Extended Abstracts of the CHI Conference on Human Factors in Computing Systems (CHI EA '25)*.
- [3] **Hanfang Lyu**, Yuanchen Bai, Xin Liang, Ujaan Das, Chuhan Shi, Leiliang Gong, Yingchi Li, Mingfei Sun, Ming Ge, and Xiaojuan Ma. [FARPLS: A Feature-Augmented Robot Trajectory Preference Labeling System to Assist Human Labelers' Preference Elicitation](#). In *29th International Conference on Intelligent User Interfaces (IUI '24)*.
- [4] Qingyu Guo, Chao Zhang, **Hanfang Lyu**, Zhenhui Peng, and Xiaojuan Ma. [What Makes Creators Engage with Online Critiques? Understanding the Role of Artifacts' Creation Stage, Characteristics of Community Comments, and their Interactions](#). In *Proceedings of the 2023 CHI Conference on Human Factors in Computing Systems (CHI '23)*.

PROJECTS

- **Understanding Human-Robot Collaboration in Construction Tasks** Sep. 2024 - Present
Methods: Video Content Analysis; Semi-structured Interviews; Graph, Vision and Language Reasoning Models [Ongoing]
- **Robot Task Learning through Virtual Human Demonstration** Sep. 2022 - Jun. 2024
Tools: Unity (Hololens Mixed Reality Toolkit, Unity Robotics Hub), ROS (Moveit), robosuite, robomimic [INAIR Joint Lab]
- **A Commonsense Mediated Happiness-building Activity Recommendation System** Sep. 2022 - Jun. 2024
Supervised by Prof. Xiaojuan Ma; Tools and Datasets: React, COMET Model, HappyDB Dataset [Final Year Project]

SERVICES

- **Technical Chair and Session Host**, Pre-CHI'25 Forum, Greater Bay ACM SIGCHI Chapter 2025
- **Reviewer**, 3×CHI LBW '25, CSCW '24, ACM 2024 - 2025
- **Student Volunteer**, IUI '24, ACM March, 2024

SKILLS

- **Empirical Research Skills**: User studies (survey, interview, retrospective think-aloud, elicitation, Wizard-of-Oz), statistical analysis (hypothesis testing, regression), qualitative analysis (thematic coding)
- **Programming Tools and Frameworks**: *Python* (Pandas, Pytorch, robosuite, robomimic, OpenAI Gym, ROS Moveit), *C#* (Unity), *C++* (ROS Moveit), *MATLAB*, *R*, *LaTeX*, Web (*HTML*, *CSS*, *JS*, *Flask*, *React*, *Hugo*), *Git*